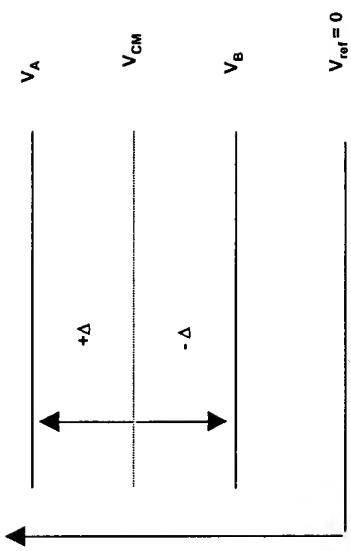
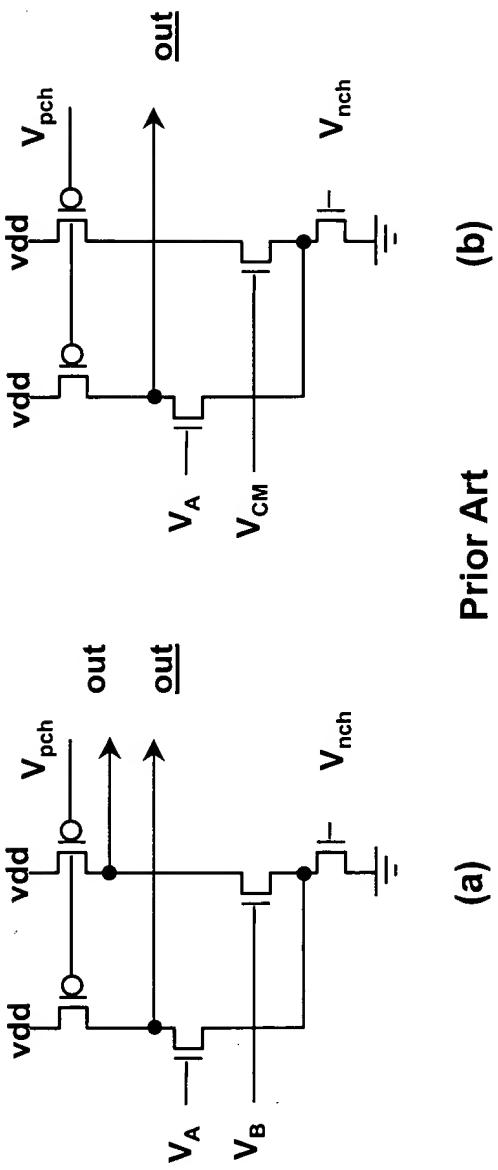


# Fig 1



# Fig 2

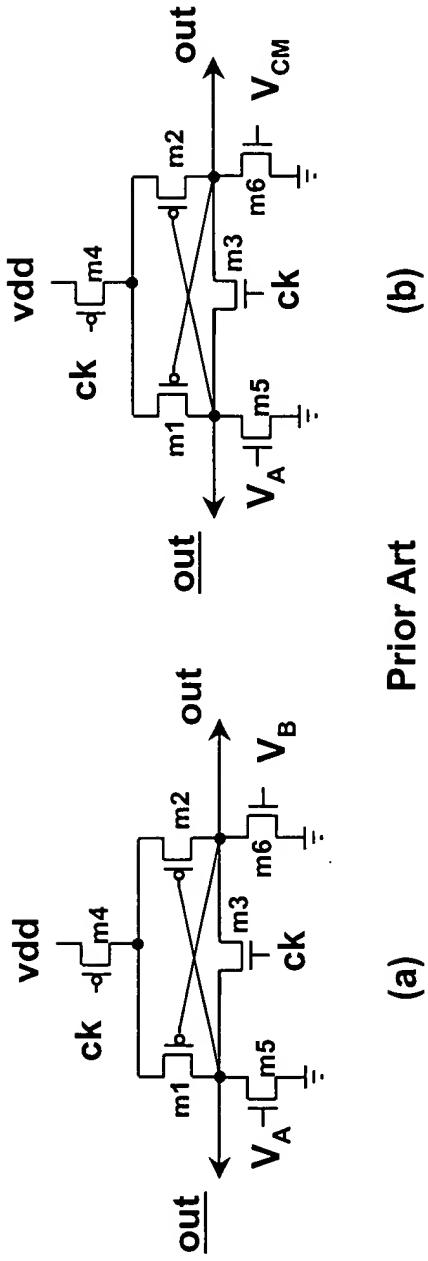


Prior Art

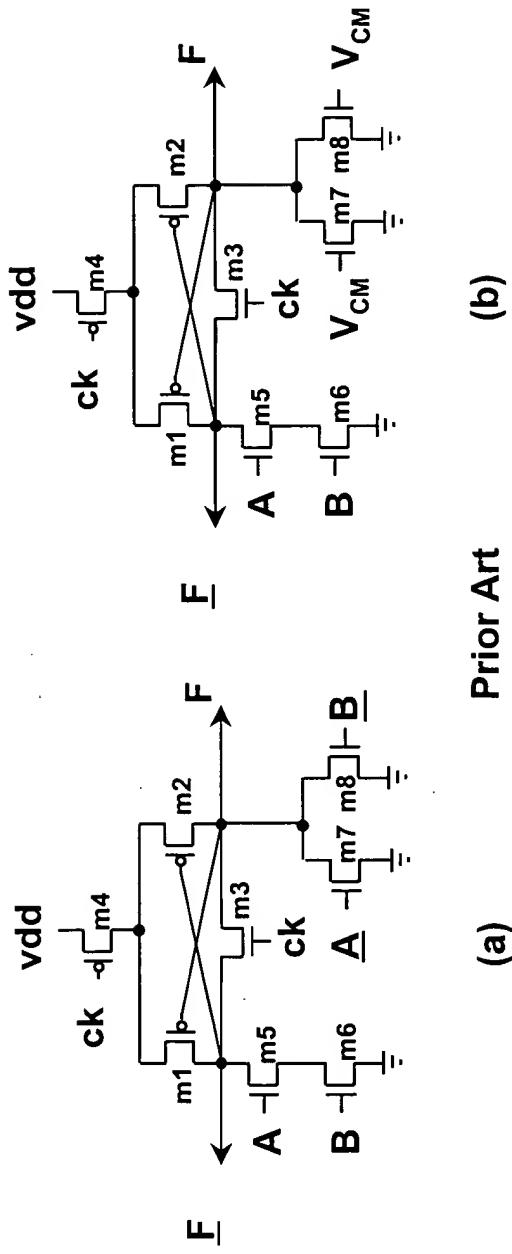
(b)

(a)

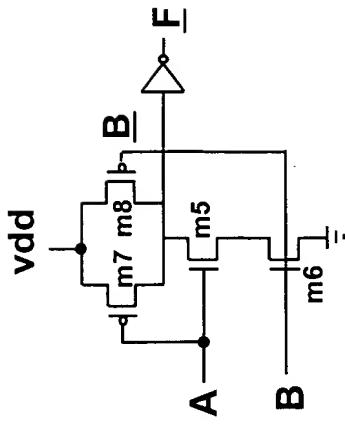
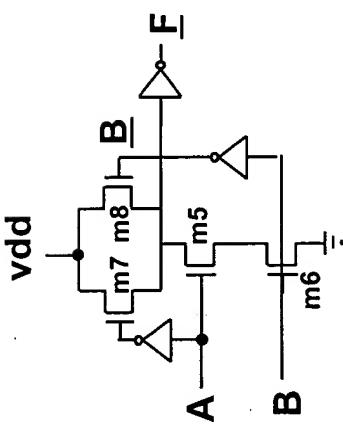
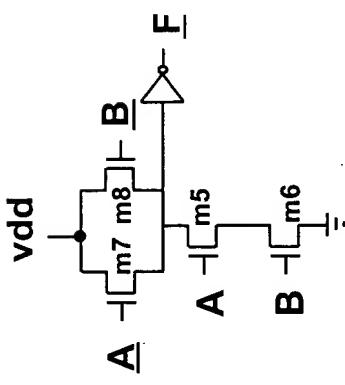
# Fig 3



# Fig 4

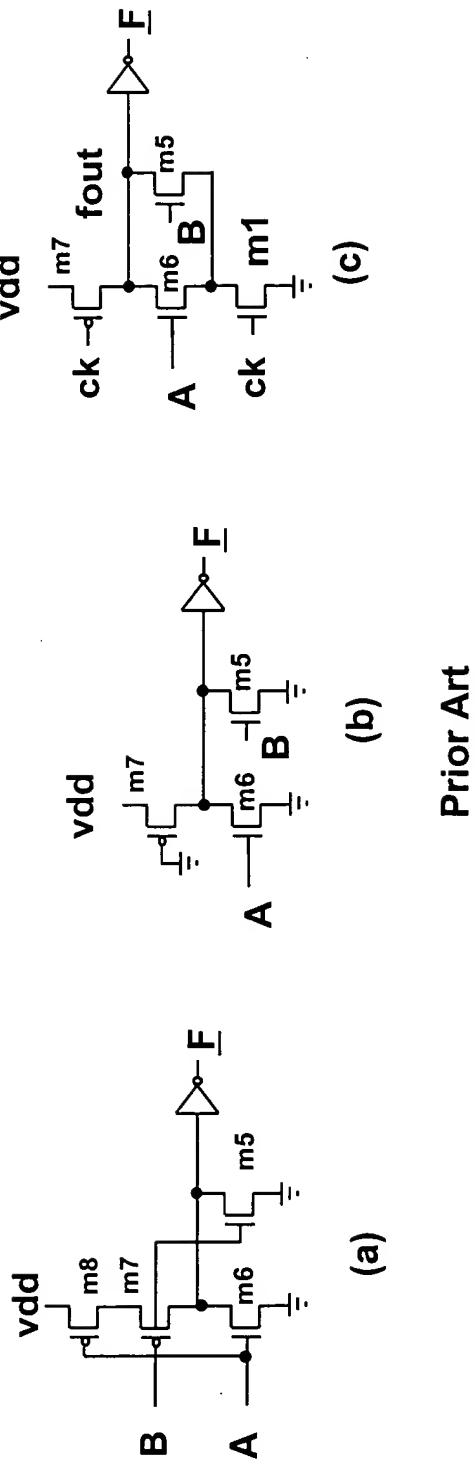


# Fig 5

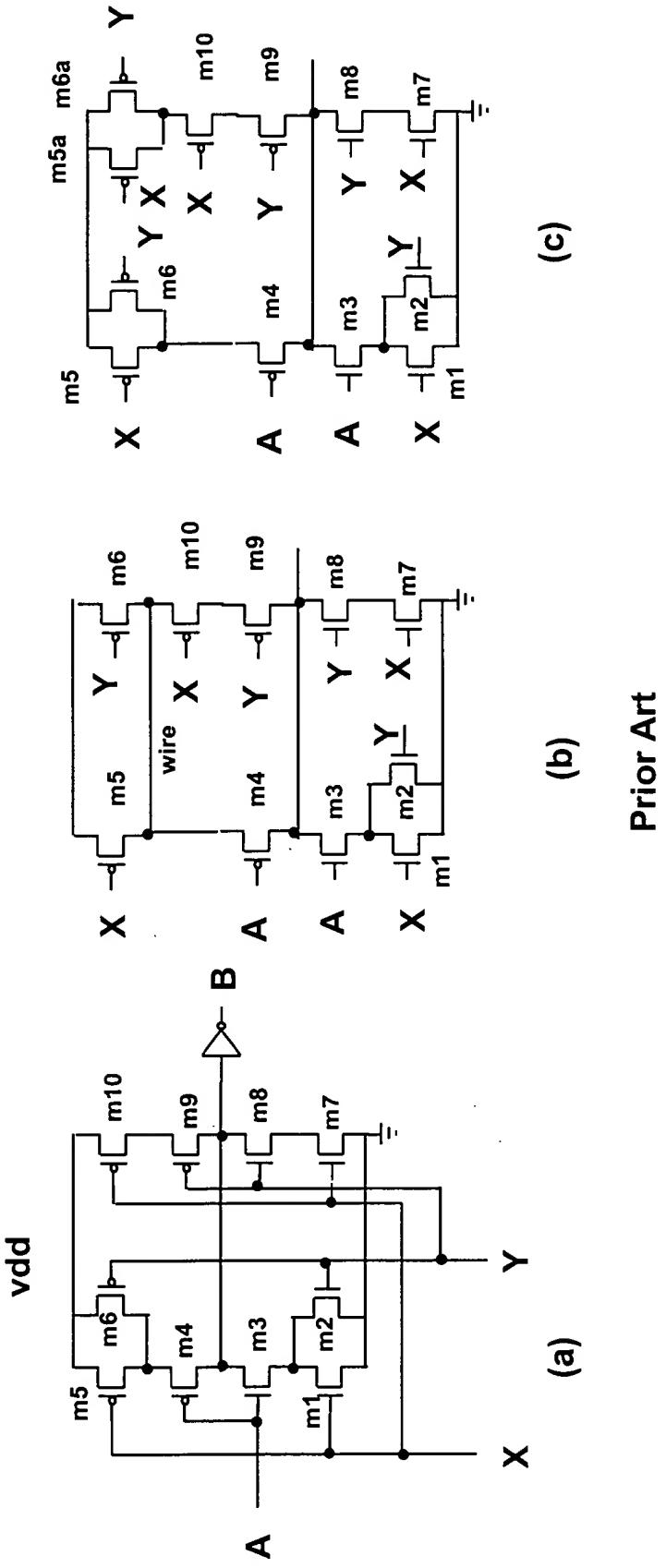


Prior Art

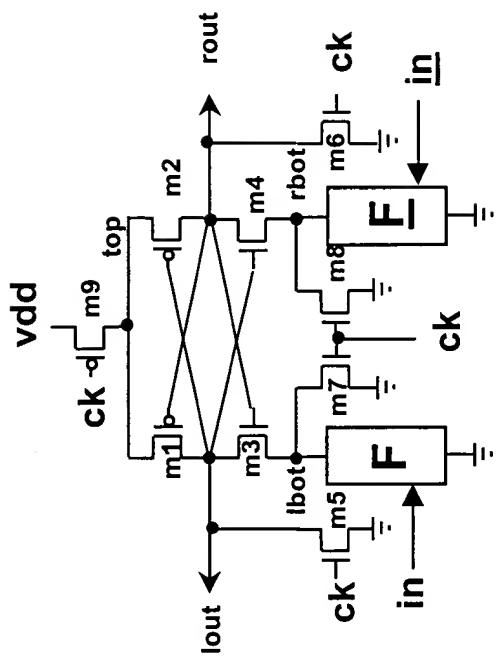
# Fig 6



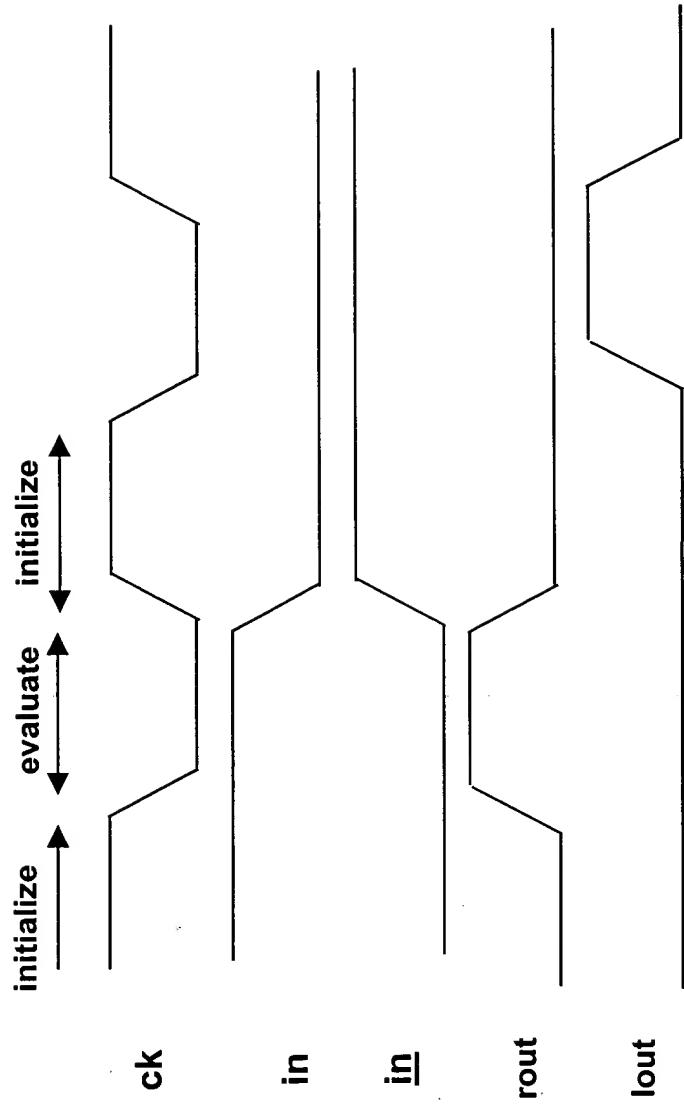
# Fig 7



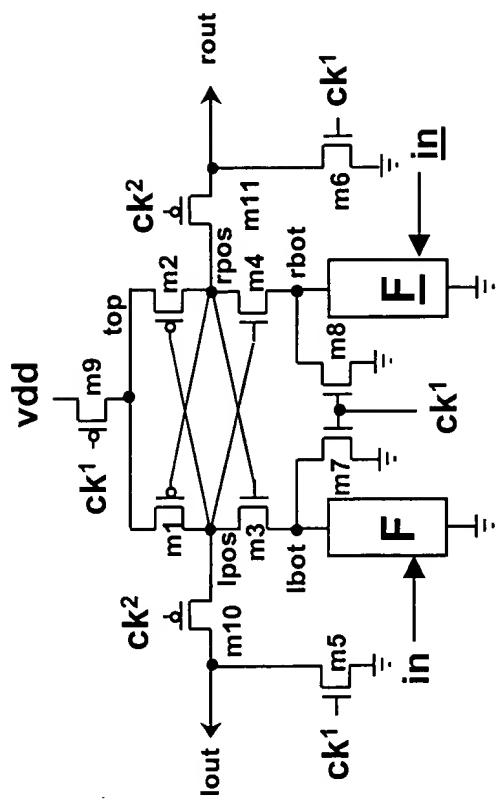
# Fig 8



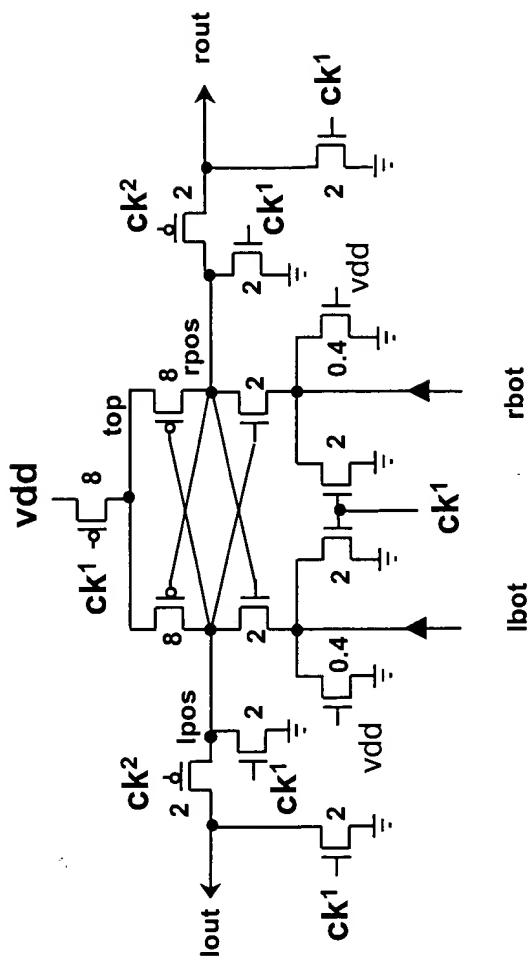
# Fig 9



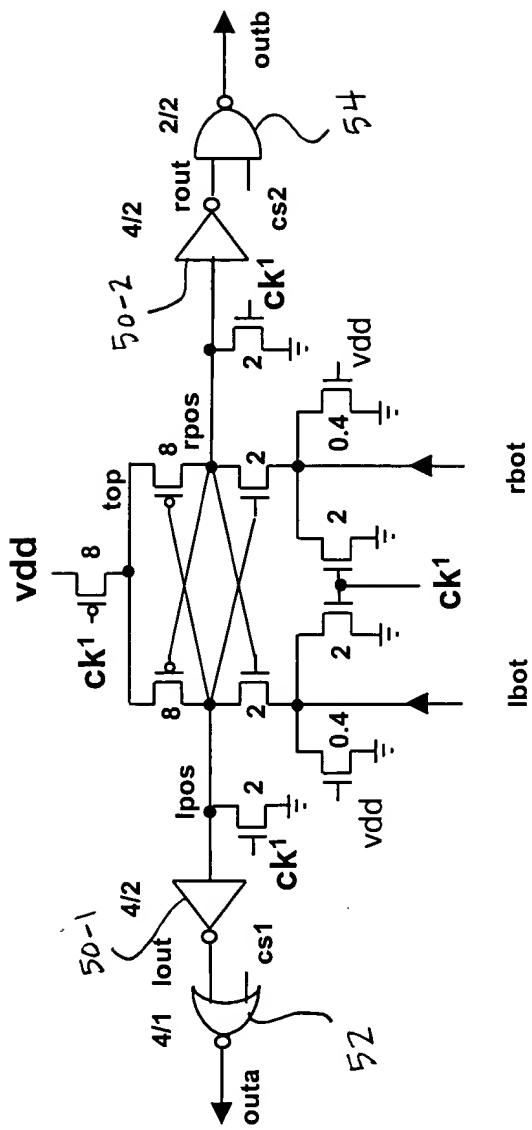
# Fig 10A



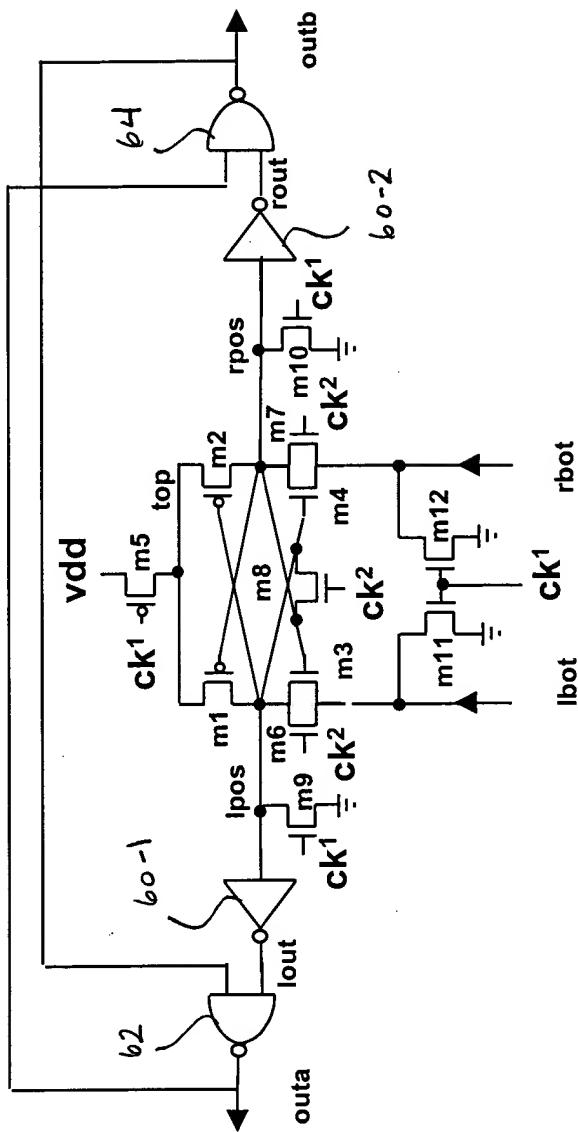
# Fig 10B



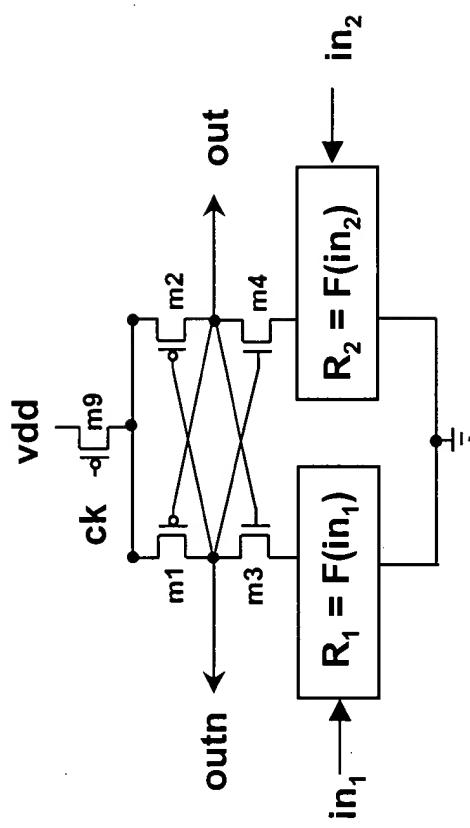
# Fig 10c



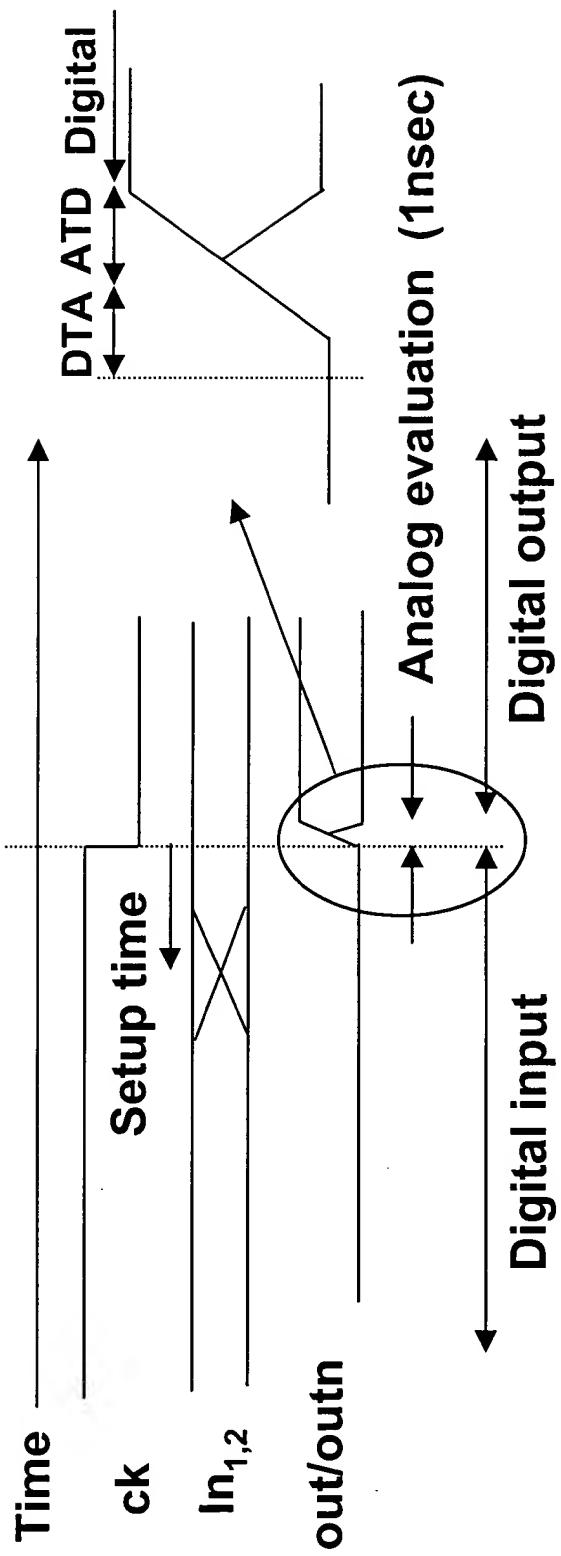
# Fig 10D



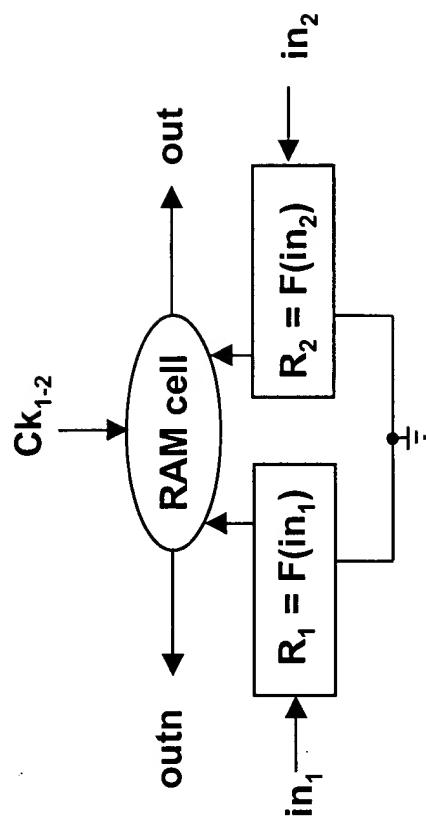
# Fig 11



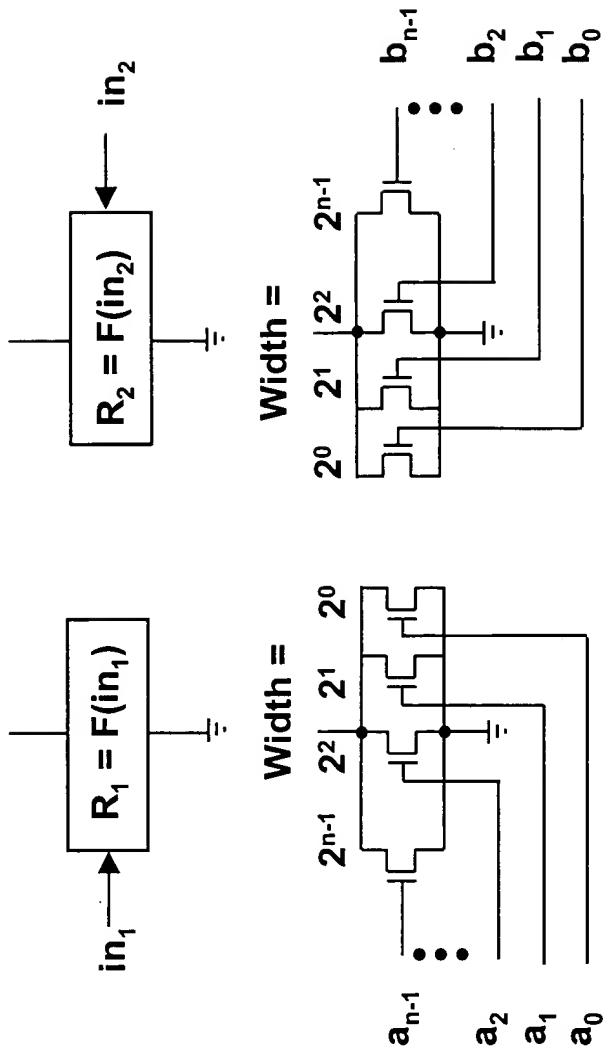
# Fig 12



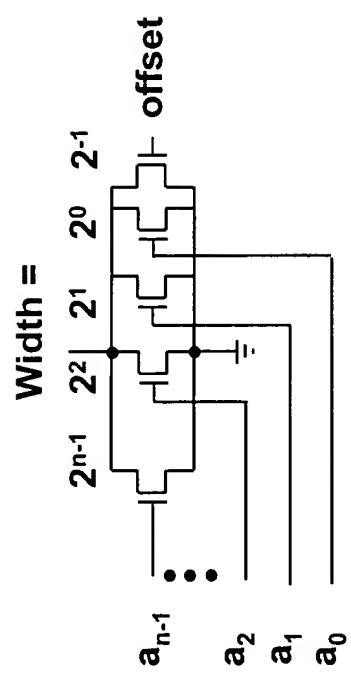
# Fig 13



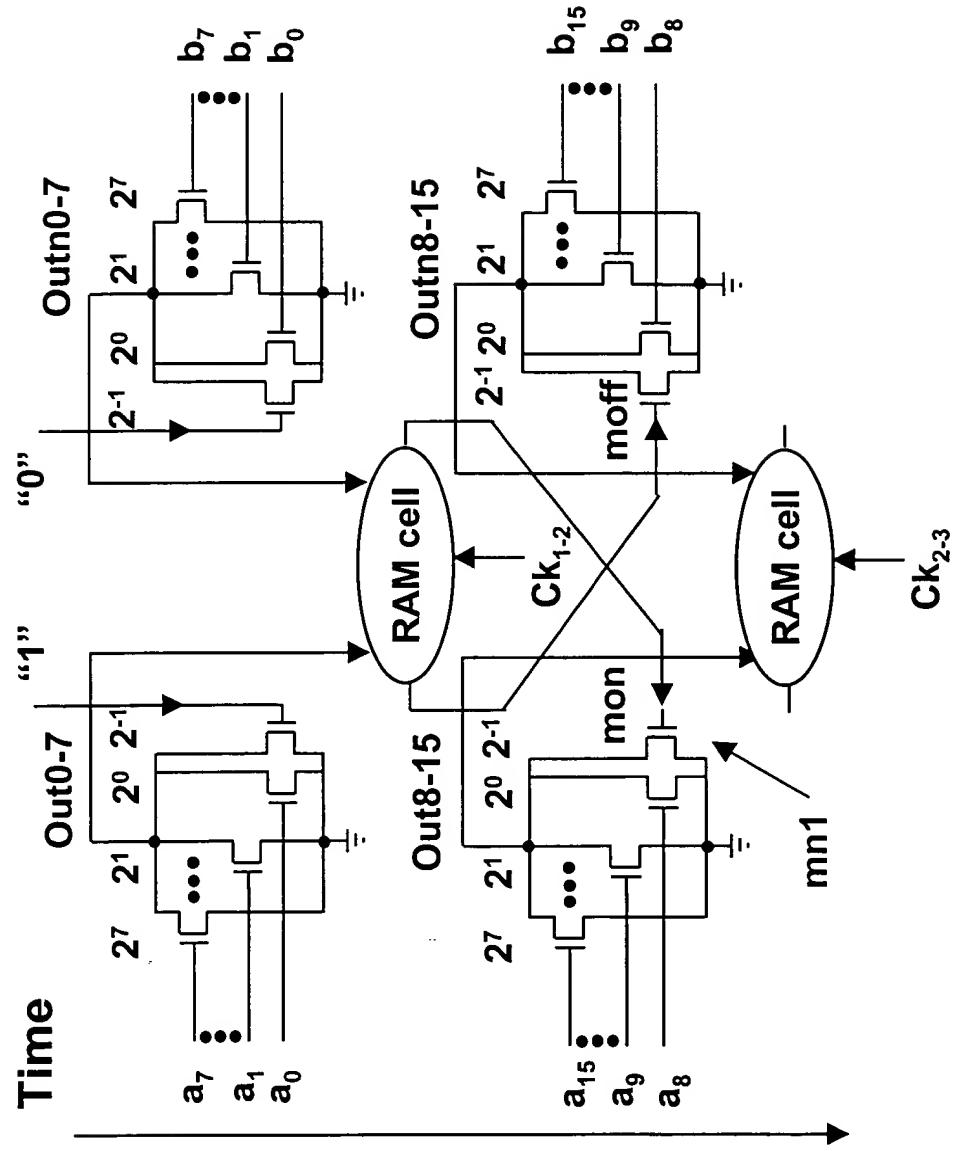
# Fig 14



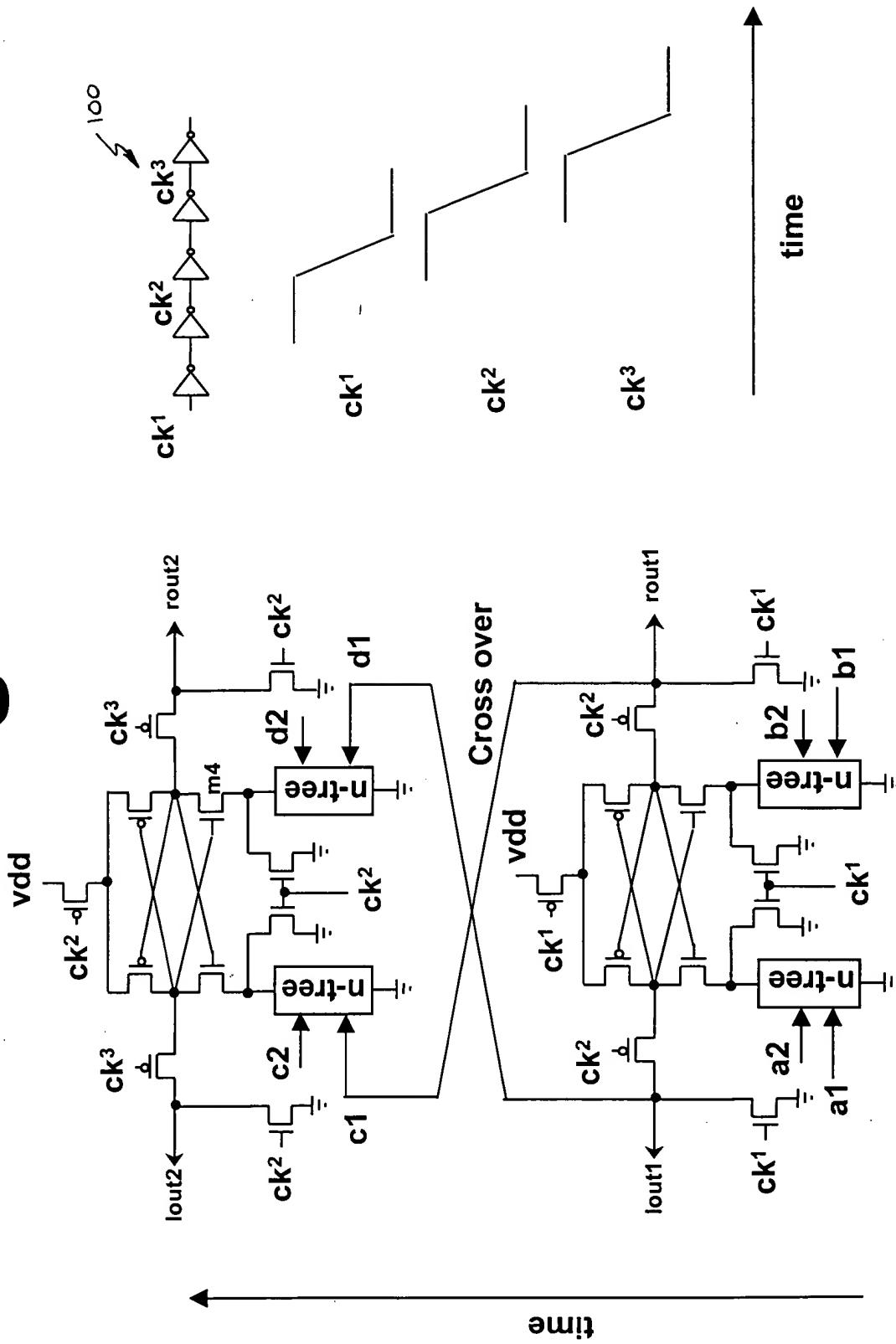
# Fig 15



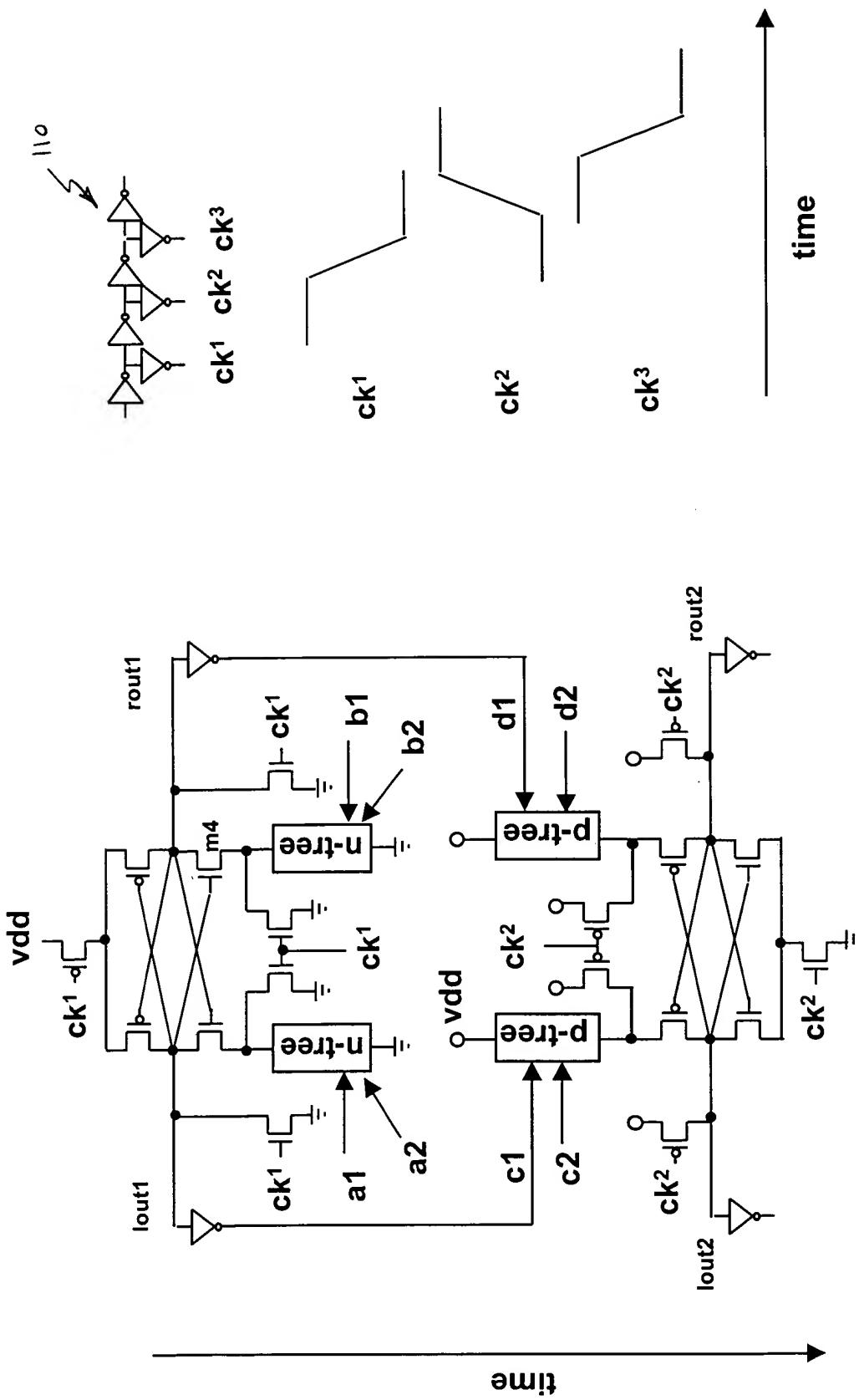
# Fig 16



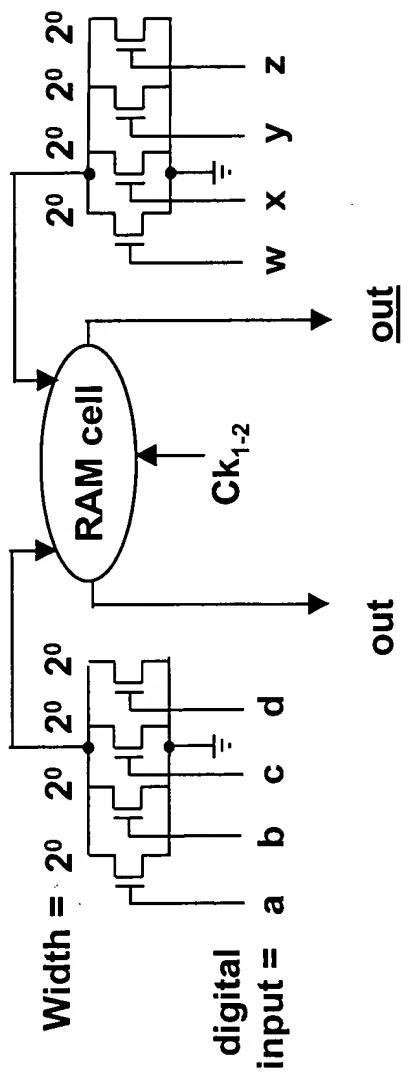
# Fig 17



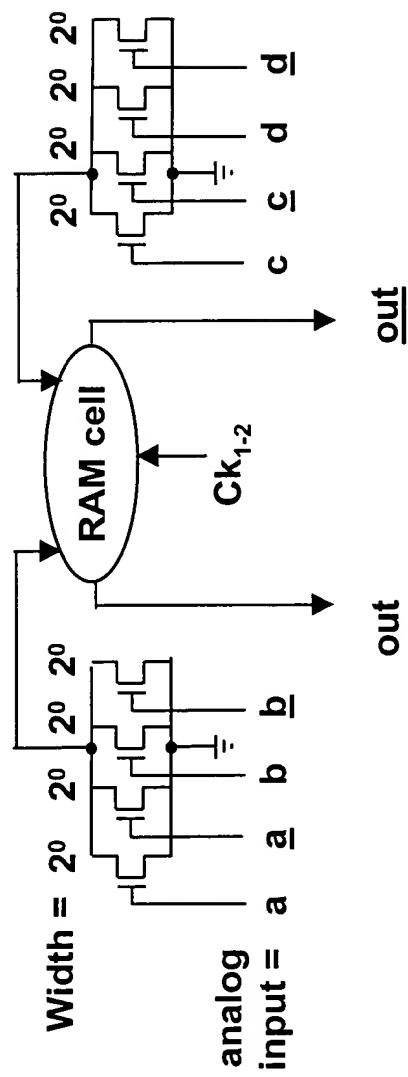
# Fig 18



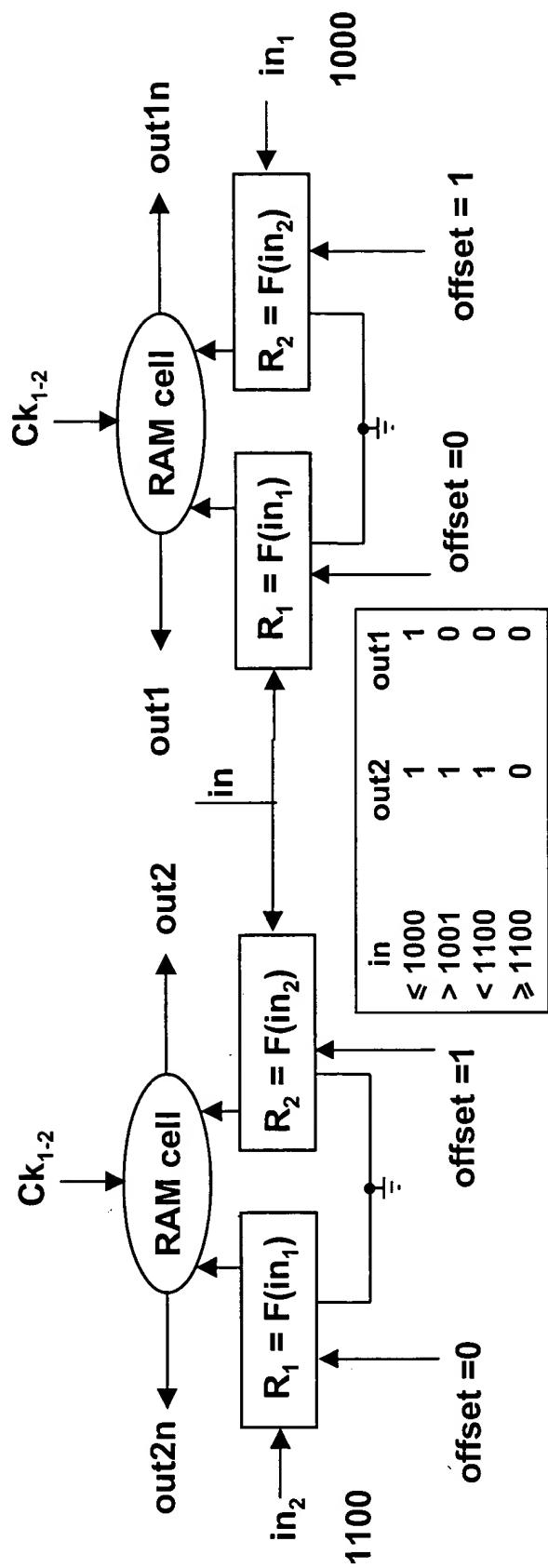
# Fig 19



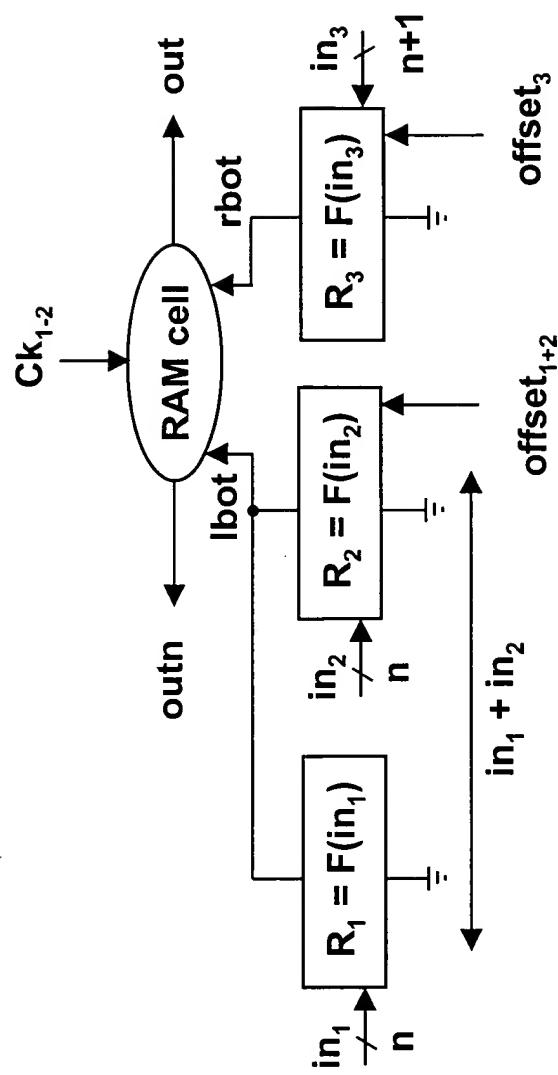
# Fig 20



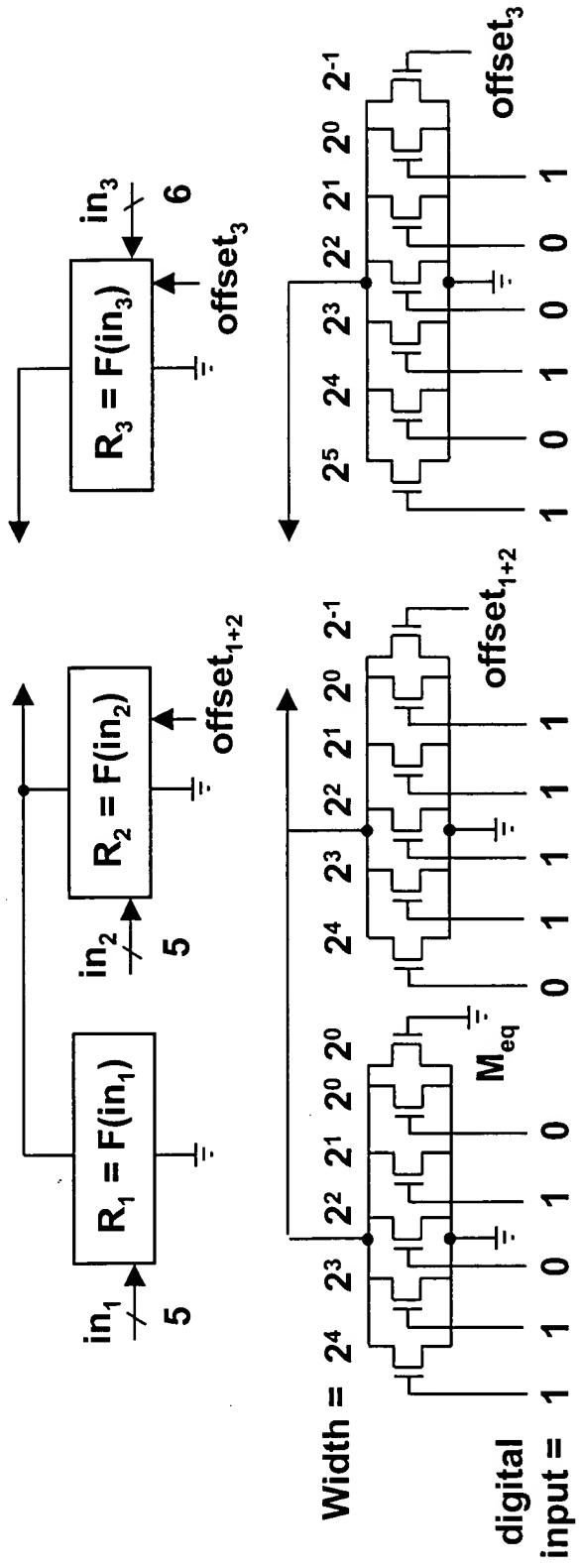
# Fig 21



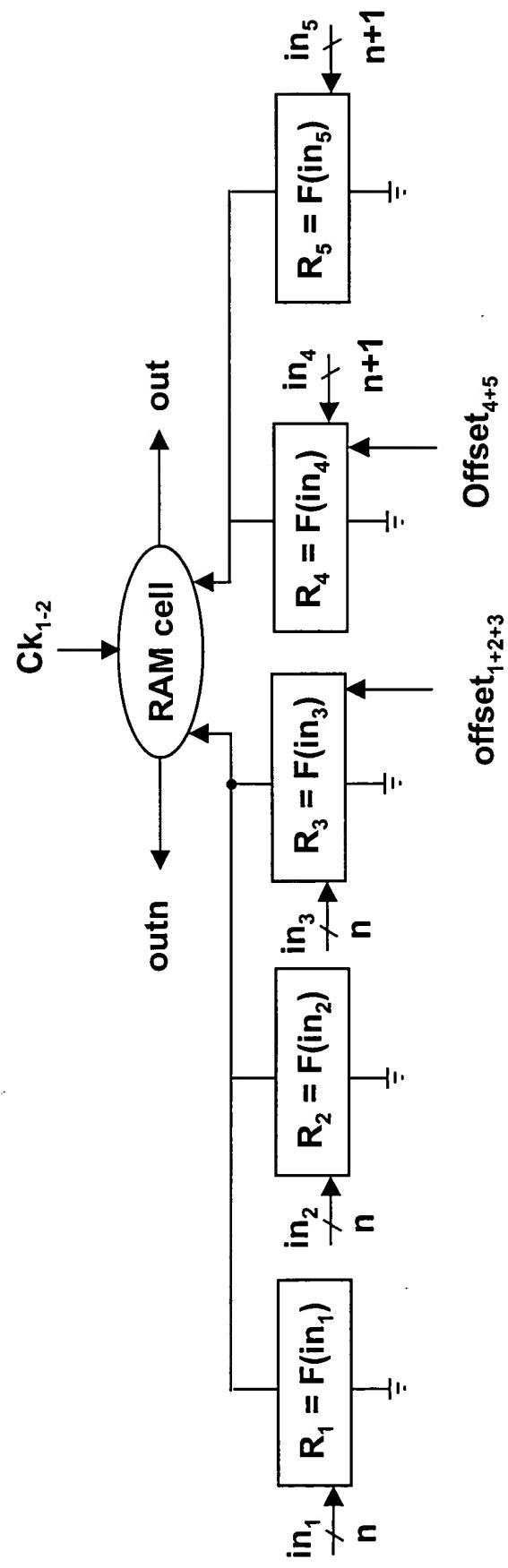
**Fig 22**



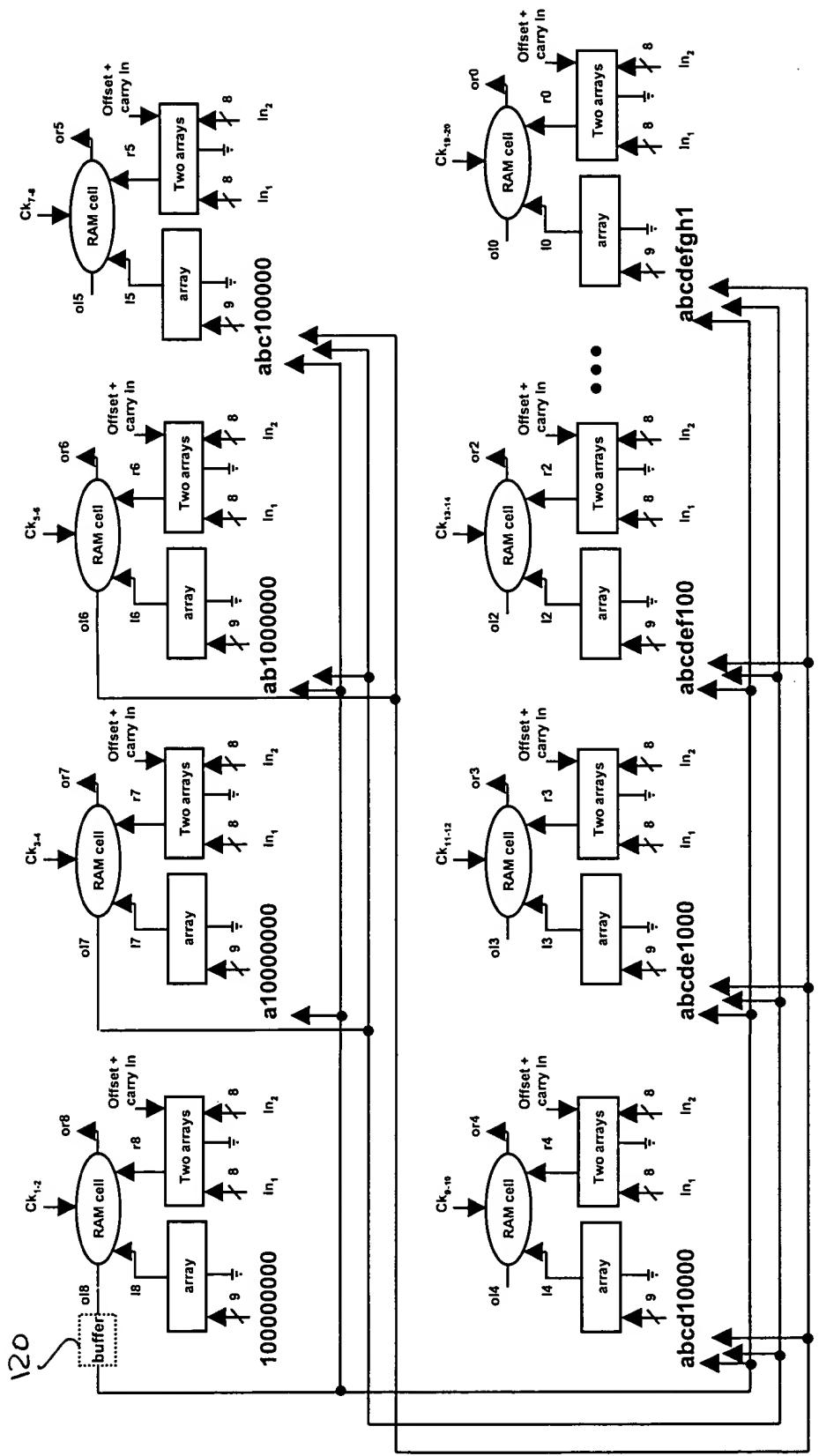
# Fig 23



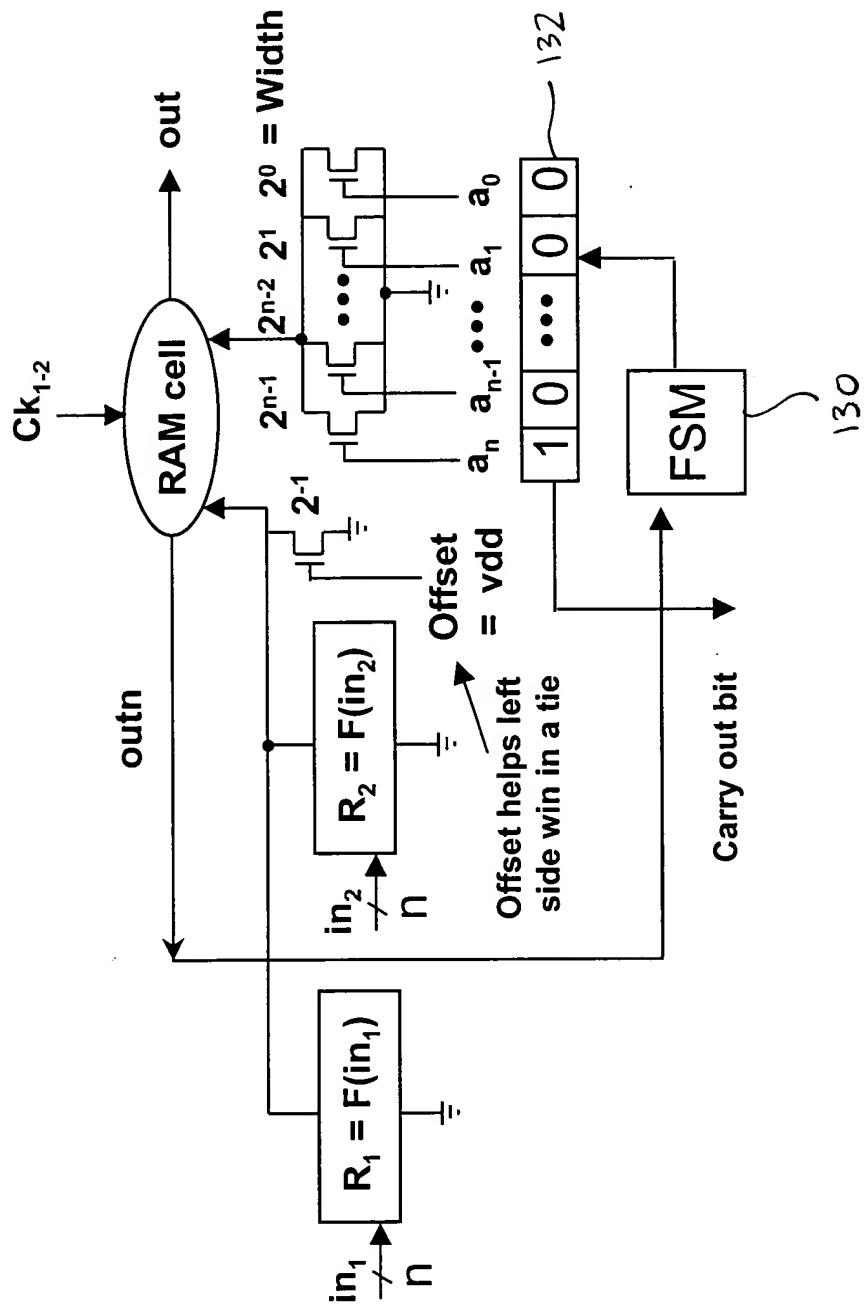
# Fig 24A



# Fig 24B



# Fig 25

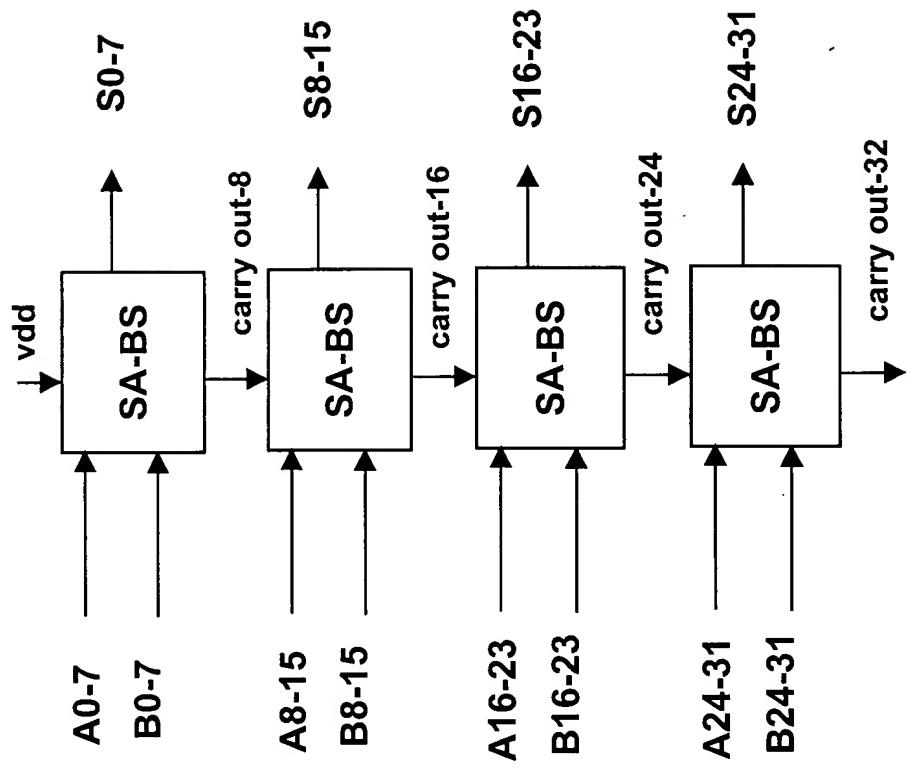


# Fig 26

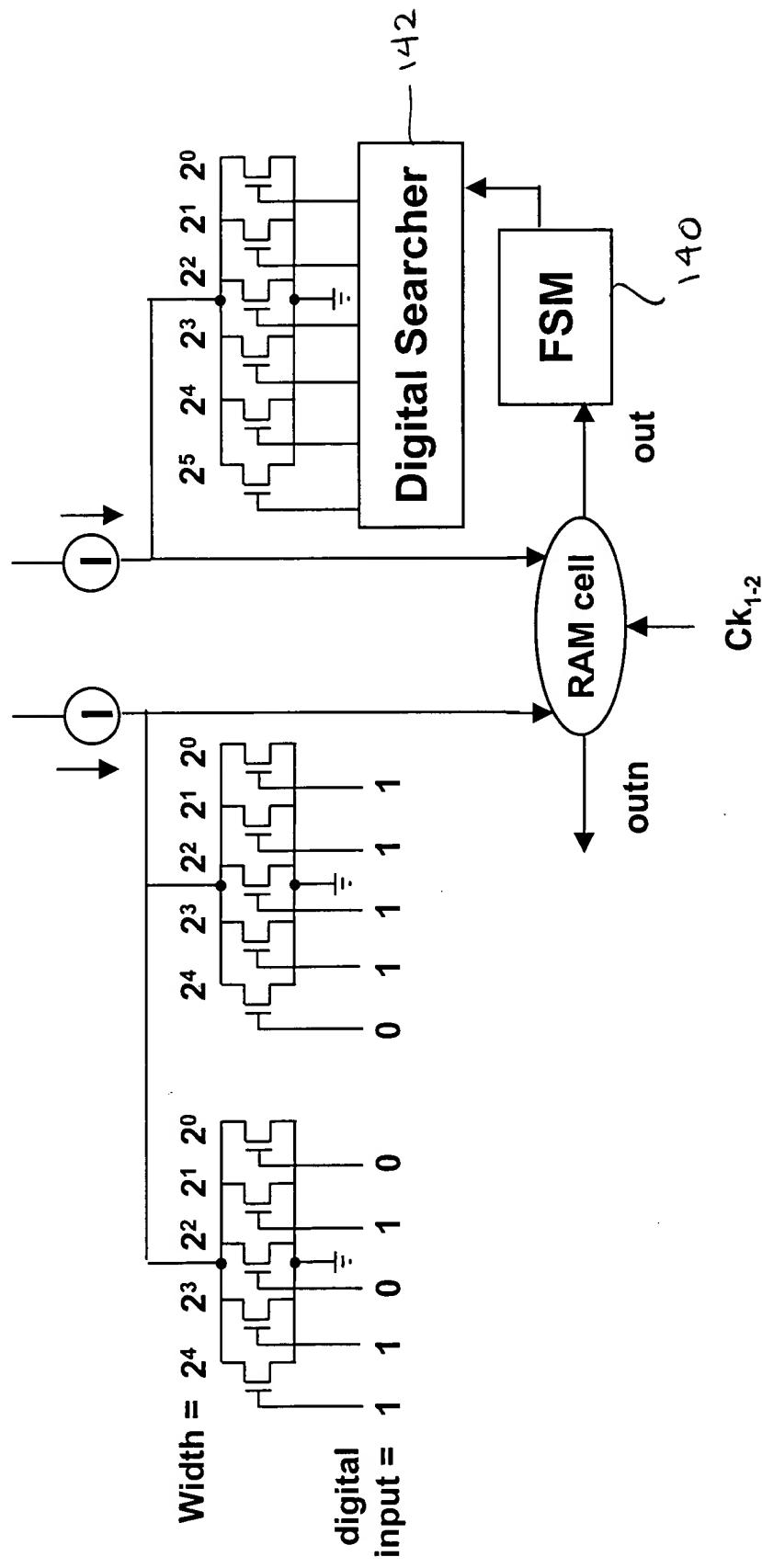
```
/* initialize */
n=8 ;
a[n] = 1;
for (k=1; k< n; k++)
    a[k]=0;

for (i=0; i<n; ++i) /* i = clock tick */
    if (out = 0)
        a[n-i-1]=1;
    else {
        a[n-i] = 0;
        if ( i < n - 1)
            a[n-i-1] = 1;
    }
/* addition result is in array a[n] */
```

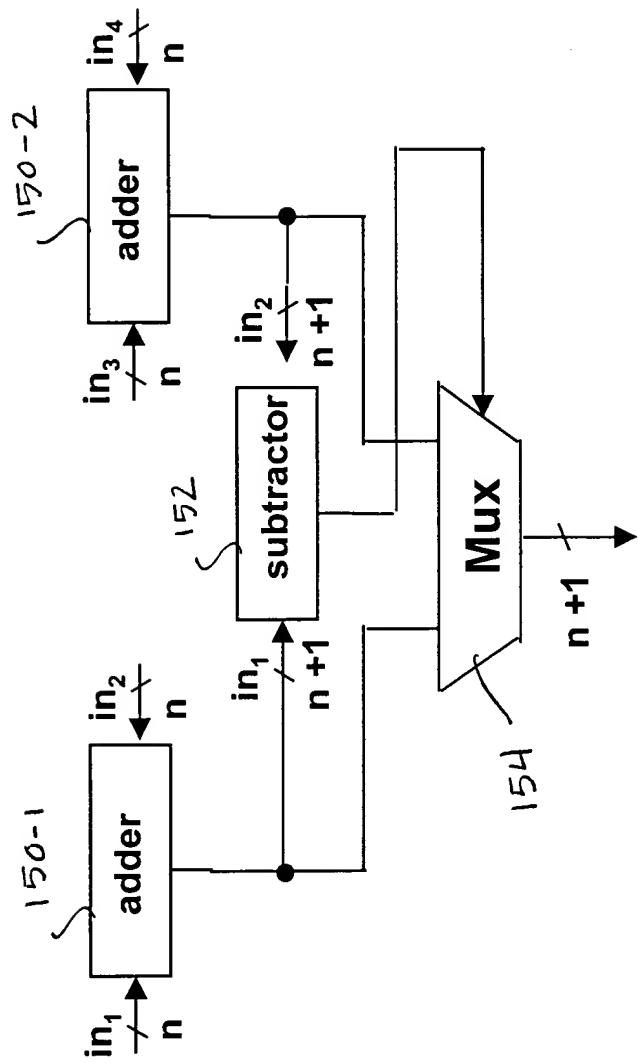
# Fig 27



# Fig 28

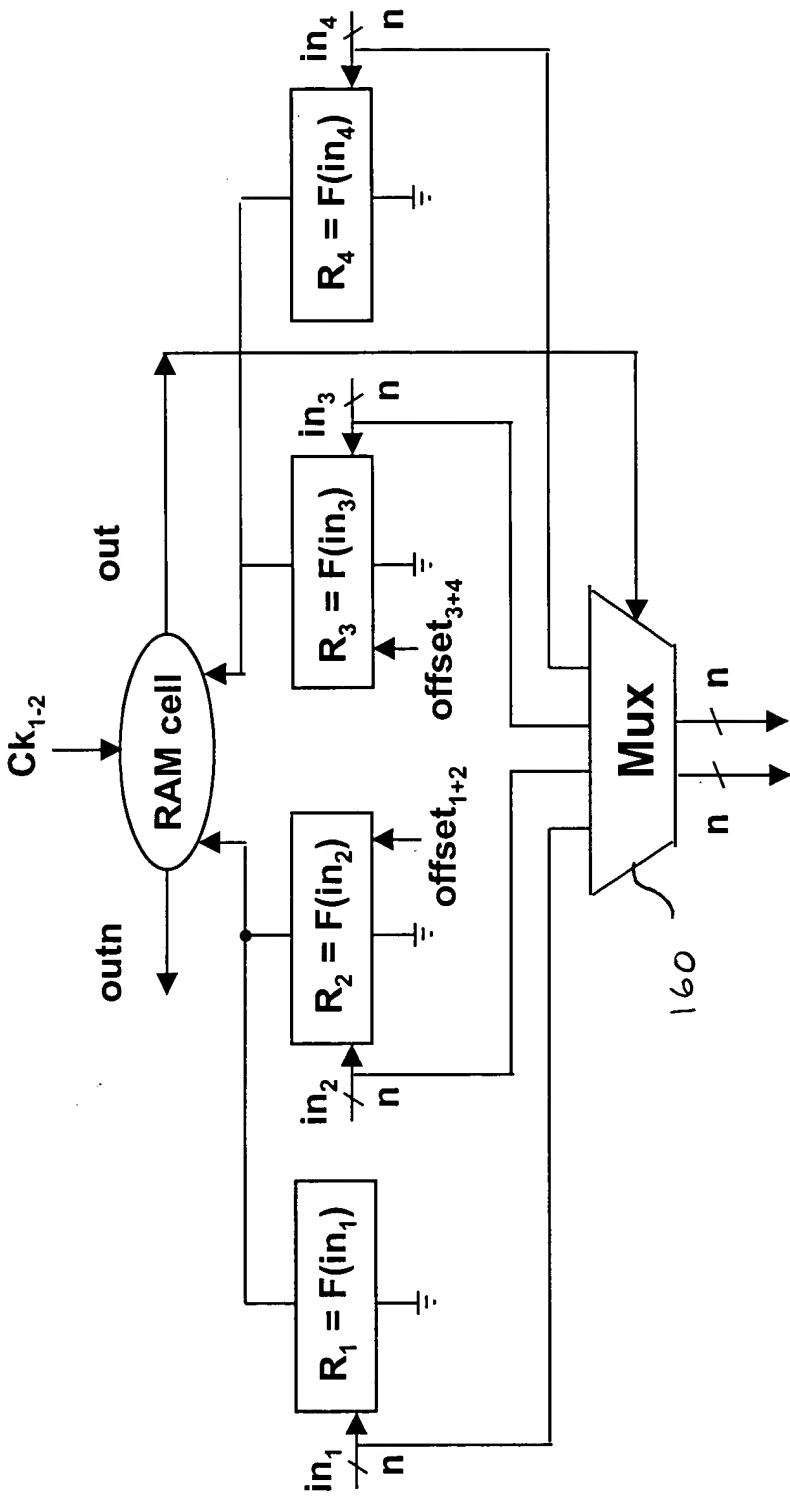


# Fig 29

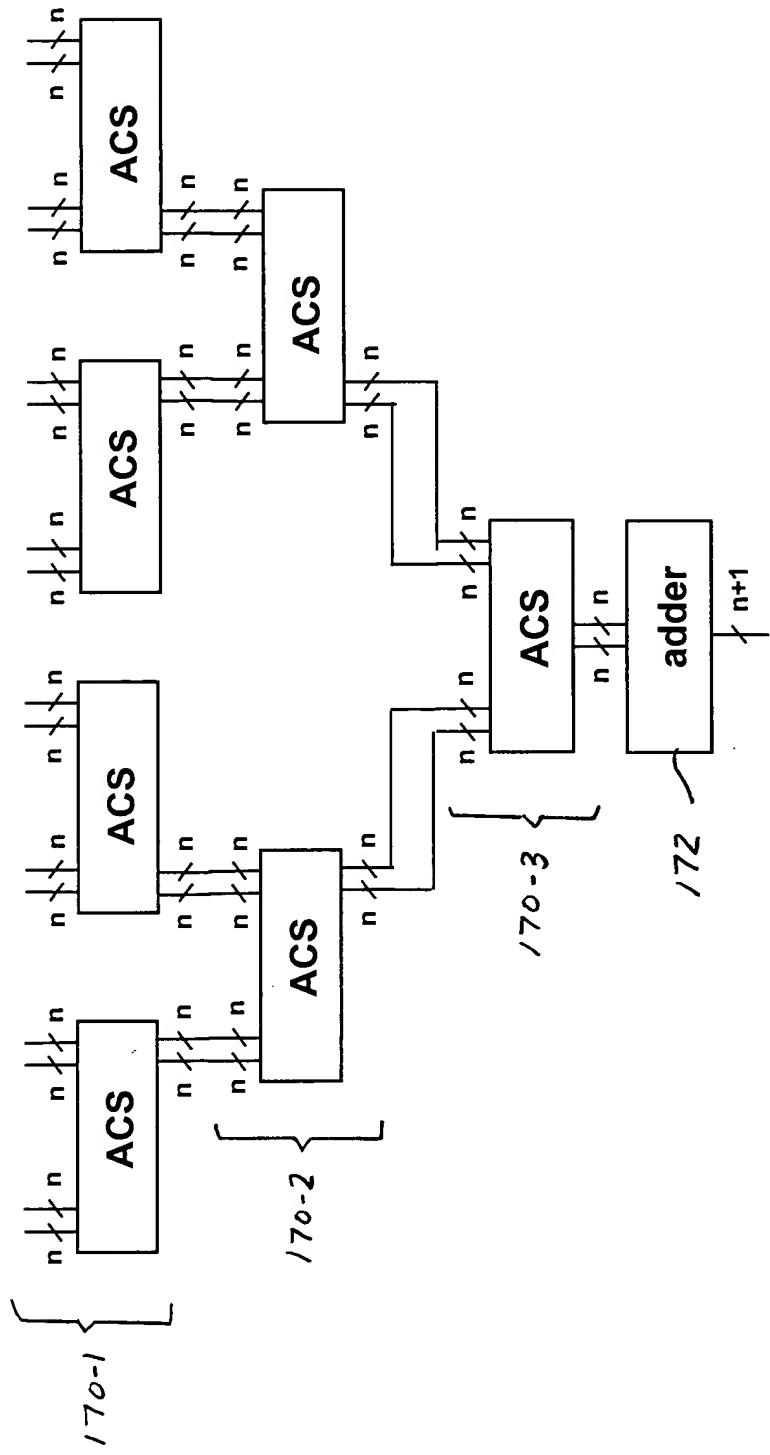


Prior Art

# Fig 30



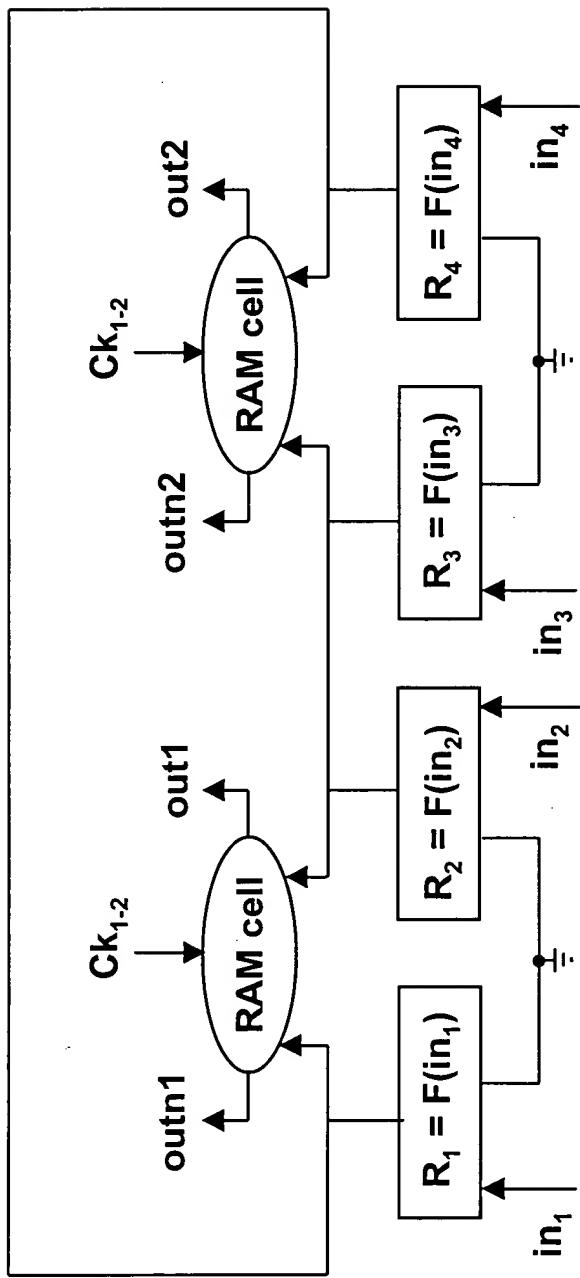
# Fig 31



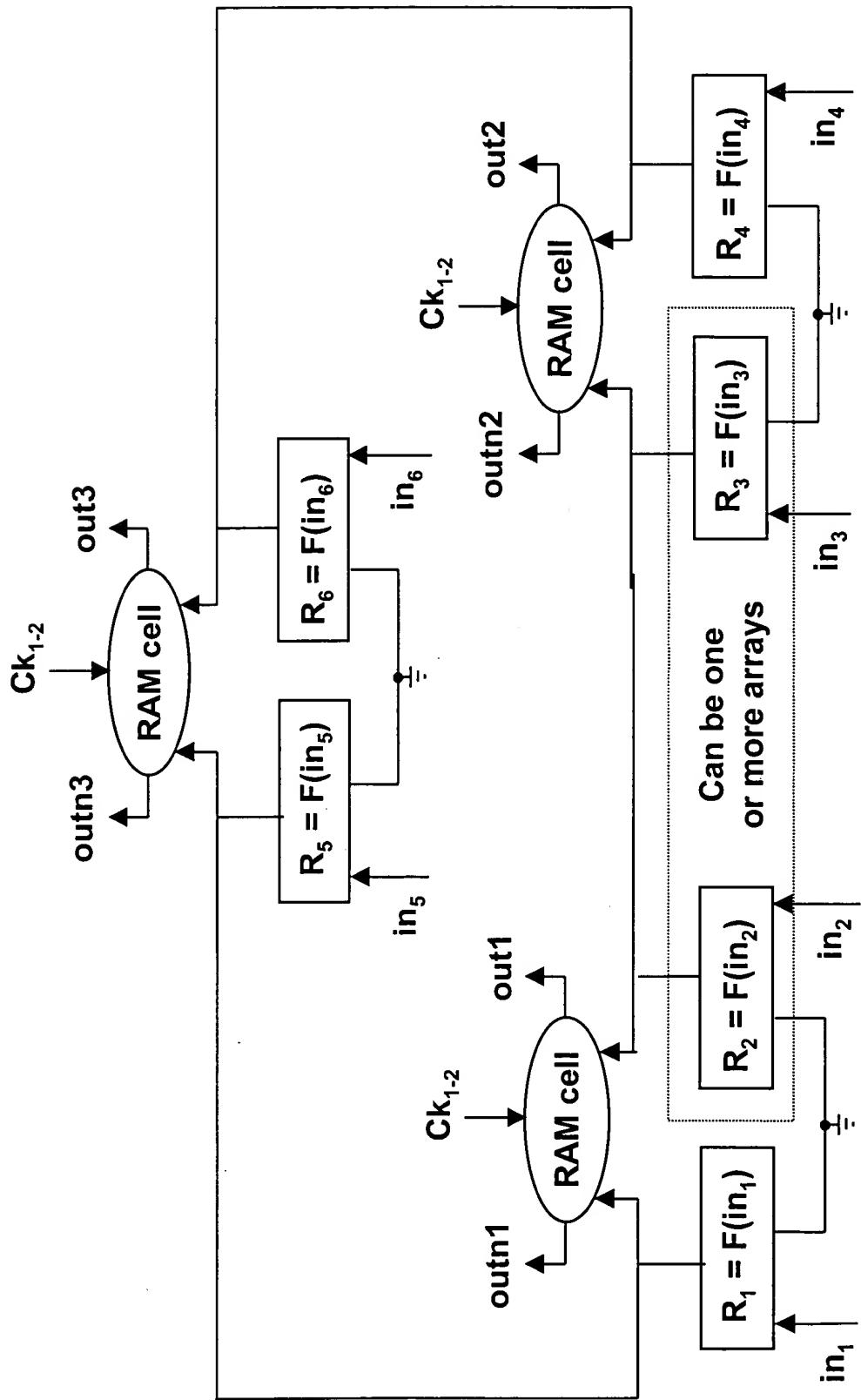
# Fig 32

POWER ( $\mu$ W)		TRANSISTOR COUNT		DELAY (pSEC)	
Add	Compare	Select	Add	Select	Add
2000	200	200	5215	58	1120
Conventional					
SeeSaw	100	300	55	108	516
Gain Factor	X20	X0.66	X95	X0.54	X2.17
					X1.15

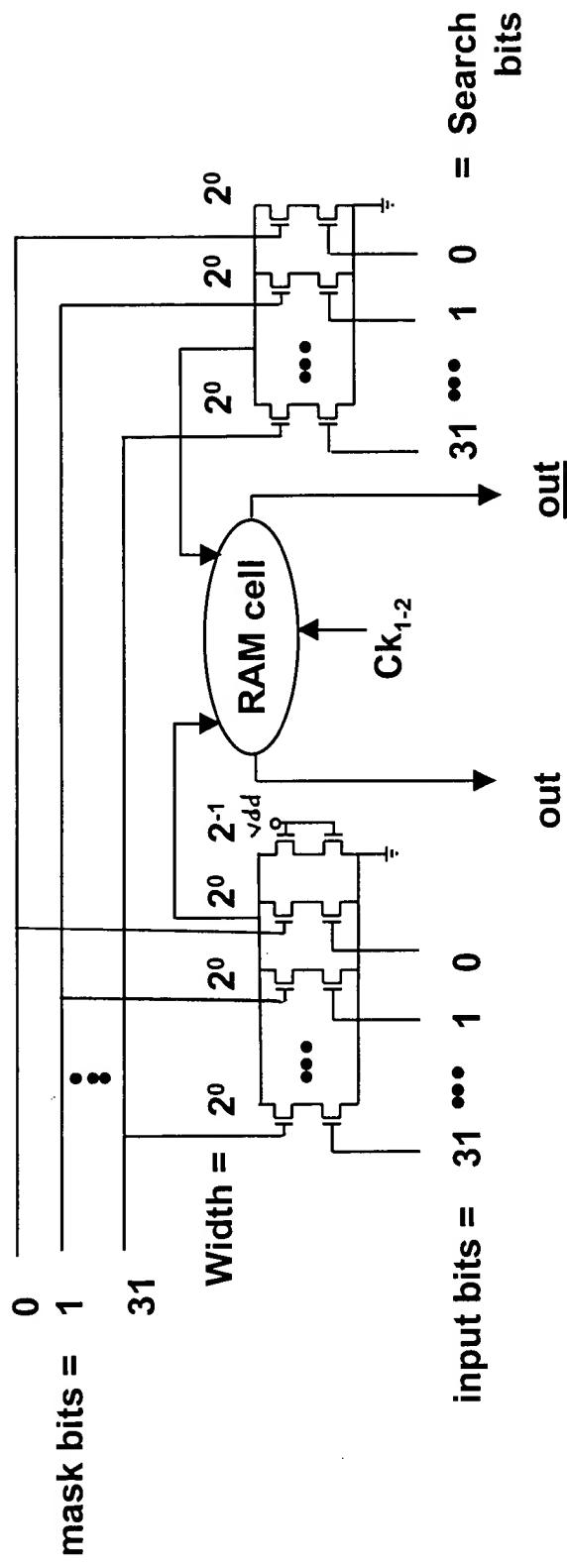
# Fig 33



# Fig 34



# Fig 35



# Fig 36

